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**Queensland
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Main Roads

ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No **BH36**

SHEET **1** of **2**

REFERENCE No **H9731**

PROJECT **IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION**

LOCATION **Bertha St O'pass. Near Pier 1, Approximate Chainage 12880m, 12.5m right of control MC20.** COORDINATES **28583.9 E; 146951.4 N**

PROJECT No **FG5404** SURFACE R.L. **10.50** DATE STARTED **16/08/05** DATUM **Ipswich Motorway**

JOB No **148/17A/57** DATUM **AHD** DATE COMPLETED **16/08/05** DRILLER **Drillsure**

DEPTH (m)	R.L. (m)	AUGER Casing Wash Boring Core Drilling	RQD () %	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH						DEFECT SPACING (mm)				GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
								EH	VH	H	M	L	VL	EL	20	60	200				600	2000
0	10.50				ASPHALT and ROAD BASE																	
1	9.80				SILTY CLAY (Fill)														1,2,3 N=5	SPT		
					Pale grey - yellow, minor iron staining and mottling , moist. Few gravelly fragments up to 20mm size. Firm - Stiff.																	
2	8.10				CLAYEY SILT (Alluvium)														1,2,6 N=8	SPT		
					Dark grey, organic odour, moist. Loose. Varies to Silty Clay in parts. Contains a few thin fine grained sand lenses.	ML													2,2,5 N=7	SPT		
3	6.80				SILTY CLAY (Alluvium)													Minor gravel.				
					Brown-grey, high plasticity, moist. Firm - Stiff.														3,4,4 N=8	SPT		
4					Becoming pale brown - grey, high plasticity.	CH													2,3,4 N=7	SPT		
5																			2,3,6 N=9	SPT		
6	3.50		(83)		SANDSTONE	MW-SW													5/0mm HB N>50	SPT		
					Pale grey with minor orange brown iron staining. Medium - coarse grained and slightly porous, quartzose sandstone.													Is(50)=0.90 MPa Is(50)=0.70 MPa	x o			
7					Generally massive with faint bedding ~20° in parts.													2 Intersecting Jts, 45°, PL, SR, 5mm CLy Fest weathered seam				
					Defects mostly dip 10°, 20° and occasionally 45° or 70°. Defect surfaces are mostly PL, SM-SR, C or O, CN.	SW												Is(50)=1.07 MPa Is(50)=1.15 MPa	x o			
8																		Jt, 70°, PL, SR-R, C, CN.				
																		Is(50)=1.17 MPa Is(50)=1.66 MPa	x o			
9			100 (93)																			
10																						

REMARKS **No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.**

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FOR GEOTECHNICAL TERMS AND
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BOREHOLE No BH36

SHEET 2 of 2

REFERENCE No H9731

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Bertha St O'pass. Near Pier 1, Approximate Chainage 12880m, 12.5m right of control MC20. COORDINATES 28583.9 E; 146951.4 N

PROJECT No FG5404 SURFACE R.L. 10.50 DATE STARTED 16/08/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 16/08/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH						DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	H	M	L	VL	EL	20	60			
10	0.50					Sandstone Cont'd.	SW												
	-1.20																		
11																			
12						Coarse graiend, quartzose, porous. Minor red iron staining throughout.	MW-SW												
	-2.20																		
			</																

REMARKS No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.

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Project: **Ipswich Motorway / Logan Motorway Interchange**
 Borehole No: **BH36**
 Start Depth: 7.00m
 Finish Depth: 12.70m
 Project No: FG5404
 H No: 9731

